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Application Number	10/626,903
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**U.S. PATENT DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
EL		US- 5,077,523	12/31/1991	Blanz	
EL		US- 4,115,736	9/19/1978	Tracy	
EL		US- 3,710,251	1/9/1973	Hagge et al.	
EL		US- 3,333,274	7/25/1967	Forcier	
EL		US- 4,856,904	8/15/1989	Akagawa	
EL		US- 3,185,927	5/25/1965	Margulis et al.	
EL		US- 3,405,361	10/8/1968	Kattner et al.	
EL		US- 4,042,119	8/16/1977	Hassan et al.	
EL		US- 4,383,178	5/10/1983	Shibata et al.	
EL		US- 4,694,245	9/15/1987	Frommes	
EL		US- 4,755,746	7/5/1988	Mallory et al.	
EL		US- 4,757,255	7/12/1988	Margozzi	
EL		US- 4,758,785	7/19/1988	Rath	
EL		US- 4,771,234	9/13/1988	Cook et al.	
EL		US- 4,845,426	7/4/1989	Nolan et al.	
EL		US- 4,926,118	5/15/1990	O'Connor et al.	
EL		US- 5,084,671	1/28/1992	Miyata et al.	
EL		US- 5,097,207	3/17/1992	Blanz	
EL		US- 5,220,277	6/15/1993	Reitinger	
EL		US- 5,266,889	11/30/1993	Harwood et al.	
EL		US- 5,309,088	5/11/1993	Vaks	
EL		US- 5,345,170	9/6/1994	Schwindt et al.	
EL		US- 5,434,512	7/18/1995	Schwindt et al.	
EL		US- 5,457,398	10/10/1995	Schwindt et al.	
EL		US- 5,532,609	7/2/1996	Harwood et al.	
EL		US- 4,567,908	2/4/1986	Bolsterli	
EL		US- 4,731,577	3/15/1988	Logan	
EL		US- 5,382,898	1/17/1995	Subramanian	
EL		US- 5,461,328	10/24/1995	Devereaux et al.	
EL		US- 3,289,046	11/29/1966	Carr	
EL		US- 4,426,619	1/17/1984	Demand	
EL		US- 4,491,173	1/1/1985	Demand	
EL		US- 4,503,335	3/5/1985	Takahashi	
EL		US- 4,691,831	9/8/1987	Suzuki et al.	
EL		US- 4,734,872	3/29/1988	Eager et al.	
EL		US- 4,759,712	7/26/1988	Demand	
EL		US- 4,777,434	10/11/1988	Miller et al.	
EL		US- 4,784,213	11/15/1988	Eager et al.	
EL		US- 4,968,931	11/6/1990	Littlebury et al.	
EL		US- 4,978,914	12/18/1990	Akimoto et al.	
EL		US- 5,001,423	3/19/1991	Abrami et al.	
EL		US- 5,006,796	4/9/1991	Burton et al.	
EL		US- 5,164,661	11/17/1992	Jones	
EL		US- 5,210,485	5/11/1993	Kreiger et al.	
EL		US- 5,325,052	6/28/1994	Yamashita	
EL		US- 4,884,026	11/28/1989	Hayakawa et al.	
EL		US- 5,550,482	8/27/1996	Sano	
EL		US- 5,610,529	3/11/1997	Schwindt	
EL		US- 5,663,653	9/2/1997	Schwindt et al.	

EC	US- 5,101,149	3/31/1992	Adams et al.	
EC	US- 5,669,316	9/23/1997	Faz et al.	
EC	US- 5,670,888	9/23/1997	Cheng	
EC	US- 5,676,360	10/14/1997	Boucher et al.	
EC	US- 5,685,232	11/11/1997	Inoue	
EC	US- 5,811,751	9/22/1998	Leong et al.	
EC	US- 5,883,522	3/16/1999	O'Boyle	
EC	US- 5,959,461	9/28/1999	Brown et al.	
EC	US- 5,963,364	10/5/1999	Leong et al.	
EC	US- 5,982,166	11/9/1999	Mautz	
EC	US- 2,389,668	11/27/1945	Johnson	
EC	US- 3,829,076	8/13/1974	Sofy	
EC	US- 3,936,743	2/3/1976	Roch	
EC	US- 4,008,900	2/22/1977	Khoshaba	
EC	US- 4,038,894	8/2/1977	Knibbe et al.	
EC	US- 4,049,252	9/20/1977	Beil	
EC	US- 4,066,943	1/3/1978	Roch	
EC	US- 4,284,033	8/18/1981	delRio	
EC	US- 4,531,474	7/30/1985	Inuta	
EC	US- 4,673,839	6/16/1987	Veenendaal	
EC	US- 4,899,998	2/13/1990	Teramachi	
EC	US- 4,904,933	2/27/1990	Snyder et al.	
EC	US- 5,321,352	6/14/1994	Takebuchi	
EC	US- 5,479,108	12/26/1995	Cheng	
EC	US- 5,481,936	1/9/1996	Yanagisawa	
EC	US- 5,571,324	11/5/1996	Sago et al.	
EC	US- 5,963,027	10/5/1999	Peters	
EC	US- 6,002,263	12/14/1999	Peters et al.	
EC	US- 5,091,691	2/25/1992	Kamieniecki et al.	
EC	US- 5,410,259	4/25/1995	Fujihara et al.	
EC	US- 6,320,372	11/20/2001	Keller	
EC	US- 4,786,867	11/22/1988	Yamatsu	
EC	US- 5,521,522	5/28/1996	Abe et al.	
EC	US- 5,561,377	10/1/1996	Strid et al.	
EC	US- 5,604,444	2/18/1997	Harwood et al.	
EC	US- 6,232,788	5/15/2001	Schwindt et al.	
EC	US- 6,791,344	9/14/2004	Cook et al.	
EC	US- 6,842,024	1/1/2005	Peters et al.	
EC	US- 6,843,024	1/18/2005	Nozaki et al.	
EC	US- 6,873,167	3/29/2005	Goto et al.	
EC	US- 20050099192	5/12/2005	Dunklee et al.	
EC	US- 3,609,539	9/28/1971	Gunthert	
EC	US- 4,978,907	12/18/1990	Smith	
EC	US- 4,791,363	12/13/1988	Logan	
EC	US- 5,923,177	7/13/1999	Wardwell	
EC	US- 5,903,143	5/11/1999	Mochizuki et al.	
EC	US- 5,680,039	10/21/1997	Mochizuki et al.	
EC	US- 5,712,571	1/27/1998	O'Donoghue	
EC	US- 5,646,538	7/8/1997	Lide et al.	
EC	US- 5,105,181	4/14/1992	Ross	
EC	US- 3,777,260	12/4/1973	Davies et al.	
EC	US- 4,342,958	8/3/1982	Russell	
EC	US- 4,419,626	12/6/1983	Cedrone et al.	
EC	US- 4,473,798	9/25/1984	Cedrone et al.	
EC	US- 4,675,600	6/23/1987	Gergin	
EC	US- 4,739,259	4/19/1988	Hadwin et al.	
EC	US- 5,105,148	4/14/1992	Lee	
EC	US- 5,303,938	4/19/1994	Miller et al.	
EC	US- 5,336,989	8/9/1994	Hofer	
EC	US- 5,369,370	11/29/1994	Stratmann et al.	
EC	US- 5,371,457	12/6/1994	Lipp	
EC	US- 5,493,070	2/20/1996	Habu	
EC	US- 5,508,631	4/16/1996	Manku et al.	
EC	US- 5,550,480	8/27/1996	Nelson et al.	
EC	US- 5,682,337	10/28/1997	El-Fishaway et al.	

EC	US- 5,798,652	8/25/1998	Taraci	
EC	US- 5,838,161	11/17/1998	Akram et al.	
EC	US- 5,861,743	1/19/1999	Pye et al.	
EC	US- 5,594,358	1/14/1997	Ishikawa et al.	
EC	US- 6,232,789	5/15/2001	Schwindt	
EC	US- 3,648,169	3/7/1972	Wiesler	
EC	US- 3,930,809	1/6/1976	Evans	
EC	US- 4,001,685	1/4/1977	Roch	
EC	US- 4,035,723	7/12/1977	Kvaternik	
EC	US- 4,116,523	9/26/1978	Coberly et al.	
EC	US- 4,151,465	4/24/1979	Lenz	
EC	US- 4,161,692	7/17/1979	Tarzwel	
EC	US- 4,480,223	10/30/1984	Aigo	
EC	US- 4,783,625	11/8/1988	Harry et al.	
EC	US- 4,888,550	12/19/1989	Reid	
EC	US- 4,894,612	1/16/1990	Drake et al.	
EC	US- 5,334,931	8/2/1994	Clarke et al.	
EC	US- 3,408,565	10/29/1968	Frick et al.	
EC	US- 4,172,993	10/30/1979	Leach	
EC	US- 5,963,027	10/5/1999	Peters	
EC	US- 6,002,263	12/14/1999	Peters et al.	
EC	US- 6,232,790	5/15/2001	Bryan et al.	
EC	US- 5,835,997	11/10/1998	Yassine	
EC	US- 6,043,667	3/28/2000	Cadwallader et al.	
EC	US- 6,111,419	8/29/2000	Lefever et al.	
EC	US- 6,194,907	2/27/2001	Kanao et al.	
EC	US- 6,424,141	7/23/2002	Hollman et al.	
EC	US- 5,220,277	6/15/1993	Reitinger	
EC	US- 5,278,494	1/11/1994	Obigane	
EC	US- 5,486,975	1/23/1996	Shamoulian et al.	
EC	US- 5,517,111	5/14/1996	Shelor	
EC	US- 5,561,585	10/1/1996	Barnes et al.	
EC	US- 5,572,398	11/5/1996	Federlin et al.	
EC	US- 5,668,470	9/16/1997	Shelor	
EC	US- 5,828,225	10/27/1998	Obikane et al.	
EC	US- 4,532,423	7/30/1985	Tojo et al.	
EC	US- 6,031,383	2/29/2000	Streib et al.	
EC	US- 6,060,891	5/9/2000	Hembree et al.	
EC	US- 6,121,783	9/19/2000	Homer et al.	
EC	US- 6,124,723	9/26/2000	Costello	
EC	US- 4,906,920	3/6/1990	Huff et al.	
EC	US- 5,530,371	6/25/1996	Perry et al.	
EC	US- 5,546,012	8/13/1996	Perry et al.	
EC	US- 5,629,631	5/13/1997	Perry et al.	
EC	US- 5,835,997	11/10/1998	Yassine	
EC	US- 5,434,512	7/18/1995	Schwindt et al.	
EC	US- 5,835,997	11/10/1998	Yassine	
EC	US- 6,031,383	2/29/2000	Streib et al.	
EC	US- 6,424,141	7/23/2002	Hollman et al.	
EC	US- 20030141861	7/31/2003	Navratil et al.	
EC	US- 6,861,856	3/1/2005	Dunklee et al.	
EC	US- 6,252,392	6/26/2001	Peters	
EC	US- 6,288,557	9/11/2001	Peters et al.	
EC	US- 6,362,636	3/26/2002	Peters et al.	
EC	US- 4,357,575	11/2/1982	Uren et al.	
EC	US- 4,812,754	3/14/1989	Tracy et al.	
EC	US- 4,904,935	2/27/1990	Calma et al.	
EC	US- 5,101,453	3/31/1992	Rumbaugh	
EC	US- 5,214,374	5/25/1993	St. Onge	
EC	US- 5,500,606	3/19/1996	Holmes	
EC	US- 5,631,571	5/20/1997	Spaziani et al.	
EC	US- 5,828,225	10/27/1998	Obikane et al.	
EC	US- 5,879,289	3/9/1999	Yarush et al.	
EC	US- 6,037,793	3/14/2000	Miyazawa et al.	
EC	US- 6,054,869	4/25/2000	Hutton et al.	

EL	US- 6,096,567	8/1/2000	Kaplan et al.		
EL	US- 6,137,303	10/24/2000	Deckert et al.		
EL	US- 6,144,212	11/7/2000	Mizuta		
EL	US- 6,222,970	4/24/2001	Wach et al.		
EL	US- 6,501,289	12/31/2002	Takekoshi		
EL	US- 3,176,091	3/30/1965	Hanson et al.		
EL	US- 3,714,572	1/30/1973	Ham et al.		
EL	US- 3,970,934	7/20/1976	Aksu		
EL	US- 4,099,120	7/4/1978	Aksu		
EL	US- 4,115,735	9/19/1978	Stanford		
EL	US- 6,483,336	11/19/2002	Harris et al.		
EL	US- 6,424,141	7/23/2002	Hollman et al.		
EL	US- 6,445,202	9/3/2002	Cowan et al.		
EL	US- 3,814,888	6/4/1974	Bowers et al.		
EL	US- 5,218,185	6/8/1993	Gross		
EL	US- 6,424,141	7/23/2002	Hollman et al.		
EL	US- 6,104,203	8/15/2000	Costello et al.		
EL	US- 6,310,755	10/30/2001	Kholodenko et al.		
EL	US- 5,550,482	8/27/1996	Sano		
EL	US- 5,610,529	3/11/1997	Schwindt		
EL	US- 6,002,263	12/14/1999	Peters et al.		
EL	US- 5,097,207	3/17/1992	Blanz		
EL	US- 6,198,299	3/6/2001	Hollman		
EL	US- 6,445,202	9/3/2002	Cowan et al.		
EL	US- 4,507,602	3/26/1985	Aguirre		
EL	US- 4,588,970	5/13/1986	Donecker et al.		
EL	US- 4,680,538	7/14/1987	Dalman et al.		
EL	US- 4,703,433	10/27/1987	Sharrit		
EL	US- 4,365,195	12/21/1982	Stegens		
EL	US- 3,201,721	8/17/1965	Voelcker		
EL	US- 4,810,981	3/17/1989	Herstein		
EL	US- 4,009,456	2/22/1977	Hopfer		
EL	US- 4,280,112	7/21/1981	Eisenhart		
EL	US- 4,346,355	8/24/1982	Tsukii		
EL	US- 3,662,318	5/9/1972	Decuyper		
EL	US- 3,775,644	11/27/1973	Colner et al.		
EL	US- 4,816,767	3/28/1989	Cannon et al.		
EL	US- 4,853,613	8/1/1989	Sequeira et al.		
EL	US- 4,414,638	11/8/1983	Talambrias		
EL	US- 4,858,160	8/15/1989	Strid et al.		
EL	US- 4,896,109	1/23/1990	Rauscher		
EL	US- 4,933,634	6/12/1990	Cuzin et al.		
EL	US- 4,695,794	9/22/1987	Bargett et al.		
EL	US- 4,730,158	3/8/1988	Kasai et al.		
EL	US- 3,265,969	8/9/1966	Catu		
EL	US- 4,838,802	6/13/1989	Soar		
EL	US- 4,923,407	5/8/1990	Rice et al.		
EL	US- 5,045,781	9/3/1991	Gleason et al.		
EL	US- 3,256,484	6/14/1966	Terry		
EL	US- 5,070,297	12/3/1991	Kwon et al.		
EL	US- 5,144,228	9/1/1992	Soma et al.		
EL	US- 5,198,756	3/30/1993	Jenkins et al.		
EL	US- 2,197,081	4/16/1940	Piron		
EL	US- 4,566,184	1/28/1986	Higgins et al.		
EL	US- 4,827,211	5/2/1989	Strid et al.		
EL	US- 4,918,374	4/17/1990	Stewart et al.		
EL	US- 4,994,737	2/19/1991	Carlton et al.		
EL	US- 5,065,082	11/12/1991	Sigler		
EL	US- 5,188,758	3/30/1993	Iknaian et al.		
EL	US- 5,657,394	8/12/1997	Schwartz et al.		
EL	US- 5,659,255	8/19/1997	Strid et al.		
EL	US- 5,869,975	2/9/1999	Strid et al.		
EL	US- 5,973,505	10/26/1999	Strid et al.		
EL	US- 6,130,544	10/10/2000	Strid et al.		
EL	US- 4,871,965	10/3/1989	Elbert et al.		

EL	US- 5,166,606	11/24/1992	Blanz		
EL	US- 6,335,628	1/1/2002	Schwindt et al.		
EL	US- 6,489,789	12/3/2002	Peters et al.		
EL	US- 6,284,971	9/4/2001	Atalar et al.		
EL	US- 2,812,502	11/5/1957	O'herty		
EL	US- 4,365,109	12/21/1982	O'Loughlin		
EL	US- 4,479,690	10/30/1984	Inouye, et al.		
EL	US- 2,471,897	5/31/1949	Rappl		
EL	US- 3,435,185	3/25/1969	Gerard		
EL	US- 4,712,370	12/15/1987	MacGee		
EL	US- 4,918,279	4/17/1990	Babel et al.		
EL	US- 6,313,649	11/6/2001	Harwood et al.		
EL	US- 20010010468	8/2/2001	Gleason et al.		
EL	US- 20010030549	10/18/2001	Gleason et al.		
EL	US- 20030057513	4/17/2003	Alexander		
EL	US- 20030062915	4/3/2003	Arnold et al.		
EL	US- 20030071631	4/17/2003	Alexander		
EL	US- 20050024069	2/3/2005	Hayden et al.		
EL	US- 4,352,061	9/28/1982	Matrone		
EL	US- 5,066,357	11/19/1991	Smyth, Jr. et al.		
EL	US- 5,225,037	7/6/1993	Elder et al.		
EL	US- 5,583,445	12/10/1996	Mullen		
EL	US- 6,037,785	3/14/2000	Higgins		
EL	US- 6,549,106	4/15/2003	Martin		
EL	US- 6,724,205	4/20/2004	Hayden et al.		
EL	US- 6,806,724	10/19/2004	Hayden et al.		
EL	US- 6,856,129	2/15/2005	Thomas et al.		
EL	US- 6,236,975	5/22/2001	Boe et al.		
EL	US- 6,236,977	5/22/2001	Verba et al.		
EL	US- 6,608,496	8/19/2003	Strid et al.		
EL	US- 5,960,411	9/28/1999	Hartman et al.		
EL	US- 6,029,141	2/22/2000	Bezos et al.		
EL	US- 6,639,415	10/28/2003	Peters et al.		
EL	US- 5,160,883	11/3/1992	Blanz		
EL	US- 6,492,822	12/10/2002	Schwindt et al.		
EL	US- 4,371,742	2/1/1983	Manly		
EL	US- 3,602,845	8/31/1971	Agrios et al.		
EL	US- 3,596,228	7/27/1971	Reed, Jr. et al.		
EL	US- 3,863,181	1/28/1975	Glance et al.		
EL	US- 4,027,253	5/31/1977	Chiron et al.		
EL	US- 4,697,143	9/29/1987	Lockwood et al.		
EL	US- 5,225,796	7/6/1993	Williams et al.		
EL	US- 6,023,209	2/8/2000	Faulkner et al.		
EL	US- 3,654,573	4/4/1972	Graham		
EL	US- 4,186,338	1/29/1980	Fichtenbaum		
EL	US- 4,665,360	5/12/1987	Phillips		
EL	US- 5,010,296	4/23/1991	Okada et al.		
EL	US- 5,034,688	7/23/1991	Moulene et al.		
EL	US- 6,486,687	11/26/2002	Harwood et al.		
EL	US- 6,636,059	10/21/2003	Harwood et al.		
EL	US- 6,642,732	11/4/2003	Cowan et al.		
EL	US- 6,720,782	4/13/2004	Schwindt et al.		
EL	US- 6,777,964	8/17/2004	Navratil et al.		
EL	US- 6,801,047	10/5/2004	Harwood et al.		
EL	US- 20040113639	6/17/2004	Dunklee et al.		
EL	US- 6,774,651	8/10/2004	Hembree		
EL	US- 6,927,079	8/9/2005	Fyfield		
EL	US- 6,686,753	2/3/2004	Kitahata		
EL	US- 6,771,090	8/3/2004	Harris et al.		
EL	US- 5,515,167	5/7/1996	Ledger et al.		
EL	US- 5,611,946	3/18/1997	Leong et al.		
EL	US- 5,666,063	9/9/1997	Abercrombie et al.		
EL	US- 5,804,982	9/8/1998	Lo et al.		
EL	US- 5,831,442	11/3/1998	Heigl		
EL	US- 5,900,737	5/4/1999	Graham et al.		

92	US- 5,945,836	8/31/1999	Sayre, et al.		
92	US- 6,271,673	8/7/2001	Furuta et al.		
92	US- 6,605,955	8/12/2003	Costello et al.		
92	US- 6,624,891	9/23/2003	Marcus et al.		
92	US- 6,836,135	12/28/2004	Harris et al.		
92	US- 3,192,844	7/6/1965	Szasz et al.		
92	US- 4,727,637	3/1/1988	Buckwitz et al.		
92	US- 5,202,558	4/13/1993	Barker		
92	US- 5,404,111	4/4/1995	Mori et al.		
92	US- 5,408,189	4/18/1995	Swart et al.		
92	US- 6,127,831	10/3/2000	Khoury et al.		
92	US- 6,380,751	4/30/2002	Harwood et al.		
92	US- 4,859,989	8/22/1989	McPherson		
92	US- 4,871,883	10/3/1989	Guiol		
92	US- 5,061,823	10/29/1991	Carroll		
92	US- 5,107,076	4/21/1992	Bullock et al.		
92	US- 5,214,243	5/25/1993	Johnson		
92	US- 5,397,855	3/14/1995	Fertier		
92	US- 5,477,011	12/19/1995	Singles et al.		
92	US- 5,729,150	3/17/1998	Schwindt		
92	US- 6,847,219	1/25/2005	Leshner et al.		
92	US- 2,142,625	1/3/1939	Zoethout		
92	US- 3,230,299	1/18/1966	Radziejowski		
92	US- 4,567,321	1/28/1986	Harayama		
92	US- 4,621,169	11/4/1986	Petinelli et al.		
92	US- 4,626,618	12/2/1986	Takaoka et al.		
92	US- 4,642,417	2/10/1987	Ruthrof et al.		
92	US- 5,486,975	1/23/1996	Shamouilian et al.		
92	US- 5,517,111	5/14/1996	Shelor		
92	US- 5,561,585	10/1/1996	Barnes et al.		
92	US- 5,572,398	11/5/1996	Federlin et al.		
92	US- 5,617,035	4/1/1997	Swapp		
92	US- 5,668,470	9/16/1997	Shelor		
92	US- 6,043,667	3/28/2000	Cadwallader et al.		
92	US- 6,111,419	8/29/2000	Lefever et al.		
92	US- 6,194,907	2/27/2001	Kanao et al.		
92	US- 5,103,169	4/7/1992	Heaton et al.		
92	US- 5,221,905	6/22/1993	Bhangu et al.		
92	US- 5,237,267	8/17/1993	Harwood et al.		
92	US- 5,278,494	1/11/1994	Obigane		
92	US- 5,315,237	5/24/1994	Iwakura et al.		
92	US- 6,885,197	4/26/2005	Harris et al.		
92	US- 5,523,694	6/4/1996	Cole, Jr.		
92	US- 5,530,372	6/25/1996	Lee et al.		
92	US- 5,675,499	10/7/1997	Lee et al.		
92	US- 5,777,485	7/7/1998	Tanaka et al.		
92	US- 5,804,983	9/8/1998	Nakajima et al.		
92	US- 5,892,539	4/6/1999	Colvin		
92	US- 5,999,268	12/7/1999	Yonezawa et al.		
92	US- 6,002,426	12/14/1999	Back et al.		
92	US- 6,048,216	4/11/2000	Yang et al.		
92	US- 6,052,653	4/18/2000	Mazur et al.		
92	US- 6,060,888	5/9/2000	Blackham et al.		
92	US- 6,078,183	6/20/2000	Cole, Jr.		
92	US- 6,118,894	9/12/2000	Schwartz et al.		
92	US- 6,124,725	9/26/2000	Sato		
92	US- 6,232,787	5/15/2001	Lo et al.		
92	US- 4,287,473	9/1/1981	Sawyer		
92	US- 4,684,883	8/4/1987	Ackerman et al.		
92	US- 4,755,874	7/5/1988	Esrig et al.		
92	US- 4,772,846	9/20/1988	Reeds		
92	US- 5,030,907	7/9/1991	Yih et al.		
92	US- 5,089,774	2/18/1992	Nakano		
92	US- 5,091,692	5/28/1991	Nbedi et al.		
92	US- 5,159,752	11/3/1992	Mahant-Shetti et al.		

SL	US- 5,475,316	12/12/1995	Hurley et al.		
SL	US- 5,479,109	12/26/1995	Lau et al.		
SL	US- 5,493,236	2/20/1996	Ishii et al.		
SL	US- 20040251922	12/16/2004	Martens et al.		
SL	US- 6,621,082	9/16/2003	Morita et al.		
SL	US- 6,633,174	10/14/2003	Satya et al.		
SL	US- 6,643,597	11/4/2003	Dunsmore		
SL	US- 6,701,265	3/2/2004	Hill et al.		
SL	US- 6,710,798	3/23/2004	Hershel et al.		
SL	US- 6,724,928	4/20/2004	Davis		
SL	US- 6,734,687	5/11/2004	Ishitani et al.		
SL	US- 6,744,268	6/1/2004	Hollman		
SL	US- 6,771,806	8/3/2004	Satya et al.		
SL	US- 6,788,093	9/7/2004	Aitren et al.		
SL	US- 6,838,885	1/4/2005	Kamitani		
SL	US- 20040061514	4/1/2004	Schwindt et al.		
SL	US- 20040095145	5/20/2004	Boudiaf et al.		
SL	US- 20040100276	5/27/2004	Fanton		
SL	US- 20040162689	8/19/2004	Jamneala et al.		
SL	US- 20040193382	9/30/2004	Adamian et al.		
SL	US- 20040199350	10/7/2004	Blackham et al.		
SL	US- 20040207424	10/21/2004	Hollman		
SL	US- 6,300,775	10/9/2001	Peach et al.		
SL	US- 6,320,396	11/20/2001	Nikawa		
SL	US- 6,396,296	5/28/2002	Tarter et al.		
SL	US- 6,483,327	11/19/2002	Bruce et al.		
SL	US- 6,488,405	12/3/2002	Eppes et al.		
SL	US- 6,549,022	4/15/2003	Cole, Jr. et al.		
SL	US- 6,573,702	6/3/2003	Marcuse et al.		
SL	US- 6,605,951	8/12/2003	Cowan		
SL	US- 6,608,494	8/19/2003	Bruce et al.		
SL	US- 6,617,862	9/9/2003	Bruce		
SL	US- 6,257,319	7/10/2001	Kainuma et al.		
SL	US- 4,557,599	12/10/1985	Zimring		
SL	US- 4,575,676	3/11/1986	Palkuti		
SL	US- 3,810,017	5/7/1974	Wiesler et al.		
SL	US- 4,818,169	4/4/1989	Schram, deceased, et al.		
SL	US- 4,893,914	1/16/1990	Hancock et al.		
SL	US- 5,773,951	6/30/1998	Markowski et al.		
SL	US- 5,942,907	8/24/1999	Chiang		
SL	US- 5,552,716	9/3/1996	Takahashi et al.		
SL	US- 5,640,101	6/17/1997	Kuji et al.		
SL	US- 5,731,708	3/24/1998	Sobhami		
SL	US- 3,896,517	12/7/1976	Ferguson et al.		
SL	US- 5,491,426	2/13/1996	Small		
SL	US- 6,198,299	3/6/2001	Hollman		
SL	US- 4,528,504	7/9/1985	Thomton Jr., et al.		
SL	US- 5,952,842	9/14/1999	Fujimoto		
SL	US- 5,910,727	6/8/1999	Fujihara et al.		
SL	US- 4,856,426	8/15/1989	Wirz		
SL	US- 5,198,752	3/30/1993	Miyata et al.		
SL	US- 5,172,049	12/15/1992	Kiyokawa et al.		
SL	US- 5,198,753	3/30/1993	Hamburgen		
SL	US- 5,065,089	11/12/1991	Rich		
SL	US- 4,982,153	1/1/1991	Collins et al.		
SL	US- 4,787,752	11/29/1988	Fraser et al.		
SL	US- 6,259,261	7/10/2001	Engelking et al.		
SL	US- 5,422,574	6/6/1995	Kister		
SL	US- 4,884,206	11/28/1989	Mate		
SL	US- 20010009377	7/26/2001	Schwindt et al.		
SL	US- 4,839,587	6/13/1989	Flatley et al.		
SL	US- 6,001,760	12/14/1999	Katsuda et al.		
SL	US- 5,916,689	6/29/1999	Collins et al.		
SL	US- 5,874,361	2/23/1999	Collins et al.		
SL	US- 5,469,324	11/21/1995	Henderson et al.		

EL	US- 5,280,156	1/18/1994	Niori et al.	
EL	US- 6,114,865	9/5/2000	Lagowski et al.	
EL	US- 5,565,788	10/15/1998	Burr et al.	
EL	US- 5,508,515	4/9/1996	Godshalk et al.	
EL	US- 5,373,231	12/13/1994	Boll et al.	
EL	US- 5,041,782	8/20/1991	Marzan	
EL	US- 4,849,689	7/18/1989	Gleason	
EL	US- 5,510,792	4/23/1996	Ono et al.	
EL	US- 6,292,760	9/18/2001	Burns	
EL	US- 5,511,010	4/23/1996	Burns	
EL	US- 5,488,954	2/6/1996	Sleva et al.	
EL	US- 5,451,884	9/19/1995	Sauerland	
EL	US- 4,093,988	6/6/1978	Scott	
EL	US- 6,091,236	7/18/2000	Piaty et al.	
EL	US- 5,995,914	11/30/1999	Cabot	
EL	US- 5,883,523	3/16/1999	Ferland et al.	
EL	US- 5,847,569	12/8/1998	Ho et al.	
EL	US- 5,142,224	8/25/1992	Smith et al.	
EL	US- 4,916,398	4/10/1990	Rath	
EL	US- 4,744,041	5/10/1988	Strunk et al.	
EL	US- 4,646,005	2/24/1987	Ryan	
EL	US- 4,275,446	6/23/1981	Blaess	
EL	US- 20010020283	9/6/2001	Sakaguchi	
EL	US- 6,211,663	4/3/2001	Moulthrop et al.	
EL	US- 5,949,579	9/7/1999	Baker	
EL	US- 4,425,395	1/10/1984	Negishi et al.	
EL	US- 4,711,563	12/8/1987	Lass	
EL	US- 5,675,932	10/14/1997	Mauney	
EL	US- 5,807,107	9/15/1998	Bright et al.	
EL	US- 5,848,500	12/15/1998	Kirk	
EL	US- 6,013,586	1/11/2000	McGhee et al.	
EL	US- 4,284,682	8/18/1981	Frosch et al.	
EL	US- 1,337,866	4/20/1920	Whitaker, deceased	
EL	US- 2,376,101	5/15/1945	Tyzzer	
EL	US- 3,193,712	7/6/1965	Harris	
EL	US- 3,484,679	12/16/1969	Hodgson et al.	
EL	US- 3,866,093	2/11/1975	Kusters et al.	
EL	US- 4,376,920	3/15/1983	Smith	
EL	US- 4,487,996	12/11/1984	Rabinowitz et al.	
EL	US- 5,095,891	3/17/1992	Reitter	
EL	US- 5,539,323	7/23/1996	Davis, Jr.	
EL	US- 6,034,533	3/7/2000	Tervo et al.	
EL	US- 6,137,302	10/24/2000	Schwindt	
EL	US- 6,147,851	11/14/2000	Anderson	
EL	US- 6,480,013	11/12/2002	Nayler et al.	
EL	US- 5,998,768	12/7/1999	Hunter et al.	
EL	US- 6,028,435	2/22/2000	Nikawa	
EL	US- 6,078,183	6/20/2000	Cole, Jr.	
EL	US- 6,091,255	7/18/2000	Godfrey	
EL	US- 6,160,407	12/12/2000	Nikawa	
EL	US- 6,245,692	6/12/2001	Pearce et al.	
EL	US- 2002/0118009	8/29/2002	Hollman et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>2</sup>
		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
		DD-288-234				
EC		DE 31 14 466	3/11/1982			
EC		DE 196 16 212	10/31/1996			
		DE 683 22 206				
EC		DE 195 41 334	9/19/1996			
EC		DE 196 18 717	01/15/1998			
EC		DE 29 12 826				



EL		DE 31 25 552	11/11/1982				
EL		DE 41 09 908	10/01/1992				
EL		DE 43 16 111	11/17/1994				
		<del>DE 94 06 227</del>					
EL		EP 0 201 205	12/17/1986				
EL		EP 0 573 183	1/7/1999				
EL		EP 0 087 497	9/7/1983				
EL		EP 0 314 481	5/3/1989				
EL		EP 0 333 521	9/20/1989				
EL		EP 0 460 911	12/11/1991				
		<del>EP 0 505 981</del>					
EL		EP 0 574 149	12/15/1993				
EL		GB 2 197 081	5/11/1988				
EL		JP 1-209380	8/23/1989				
EL		JP 2-22873	1/25/1990				
		<del>JP 2-220453</del>	<del>9/3/1990</del>				
		<del>JP 4-732</del>					
EL		JP 2001-189285	7/10/2001				
EL		JP 2001-189378	7/10/2001				
EL		JP 2002-164396	6/7/2002				
EL		JP 1-165968	6/29/1989				
EL		JP 1-214038	8/28/1989				
EL		JP 1-219575	9/1/1989				
EL		JP 1-296167	11/29/1989				
EL		JP 3-175367	7/30/1991				
EL		JP 5-157790	6/25/1993				
EL		JP 5-166893	7/2/1993				
EL		JP 60-71425	3/15/1994				
EL		JP 7005078	1/10/1995				
EL		JP 10-116866	5/6/1998				
EL		JP 11-031724	2/2/1999				
EL		JP 53-052354	5/12/1978				
EL		JP 56-007439	1/26/1981				
EL		JP 62-011243	1/20/1987				
EL		JP 63-143814	6/16/1988				
		<del>JP 3-67167</del>	<del>3/22/1991</del>				
		<del>JP 10-339743</del>	<del>12/22/1998</del>				
EL		JP 1-178872	7/17/1989				
EL		JP 2-22837	1/25/1990				
		<del>JP 7-5197</del>	<del>11/01/1995</del>				
		<del>JP 7-273608</del>	<del>10/20/1995</del>				
		<del>JP 63-160366</del>	<del>7/4/1988</del>				
EL		JP 2002033374	1/31/2002				
EL		WO 01/69656	9/20/2001				
EL		WO 80/00101	1/24/1980				
EL		WO 86/07493	12/18/1986				
EL		WO 89/04001	5/5/1989				
EL		WO 2004/049395	6/10/2004				

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Application Number	10/626,903
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Art Unit	2829
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Attorney Docket Number	1016, 0098

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials *	Cite No. 1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
EC		CHRISTOPHE RISACHER, VESSEN VASSILEV, ALEXEY PAVOLOTSKY, AND VICTOR BELITSKY, "Waveguide-to-Microstrip Transition With Integrated Bias-T," IEEE Microwave and Wireless Components Letters, Vol. 13, No. 7, July 2003, pp. 262-264.	
EC		JOHN A. MODULO, GORDON WOOD ANDERSON, FRANCIS J. KUB, AND INGHAM A.G. MACK, "Wafer level high-frequency measurements of photodetector characteristics," Applied Optics, Vol. 27, No. 15, August 1, 1988, pp. 3059-3060.	
EC		CASCADE MICROTECH, "Introducing the peak of analytical probe stations," MicroProbe Update, May 1990.	
EC		H.-J. EUL AND B. SCHIEK, "Thru-Match-Reflect: One Result of a Rigorous Theory for De-Embedding and Network Analyzer Calibration," 18 <sup>th</sup> European Microwave Conference '88, The International Conference Designed for the Microwave Community, Published by Microwave Exhibitions and Publishers Limited, September 12-16, 1988, Stockholm, Sweden.	
EC		CASCADE MICROTECH, "Analytical Probe Station," Summit 9000 Series, June 1, 1990.	
EC		MAURY MICROWAVE CORPORATION, "MT950D Series, Transistor Test Fixture Software, Software Application Packs," Sept. 20, 1982	
EC		Signatone S-1240 Thermal Controller, 2 page description. No date ✓	
EC		ERIC PHIZICKY, PHILIPPE I.H. BASTIAENS, HENG ZHU, MICHAEL SNYDER, & STANLEY FIELDS, "Protein analysis on a proteomic scale," Nature 422, insight: review article, March 13, 2003.	
EC		THE MICROMANIPULATOR COMPANY, "Semi-Automatic Probing Stations and Accessories," pp. 1-12 No date ✓	
EC		INTEGRATED TECHNOLOGY CORPORATION, "Probit PB500A Probe Card Repair and Analysis Station," 4 pages. No date ✓	
EC		BRIAN J. CLIFTON, "Precision slotted-Line Impedance Measurements Using computer Simulation for Data Correction," IEEE Transactions on Instrumentation and Measurement, Vol. IM-19, No. 4, November 1970, pp. 358-363.	
EC		ERIC STRID (CASCADE MICROTECH), "Planar Impedance Standards and Accuracy Considerations in Vector Network Analysis," June 1986, 8 pages.	
EC		J. MARTENS, ANRITSU COMPANY, 490 JARVIS DRIVE, MORGAN HILL, CA 95037, "Multiport SOLR Calibrations: Performance and an Analysis of some Standards Dependencies," pp. 205-213. No date ✓	
EC		MAURY MICROWAVE CORPORATION, "MT950 Series Transistor Test Fixture (TTF) NOTICE! NOTICE! May 31, 1985	
EC		MAURY MICROWAVE CORPORATION, "MT950 Series Transistor Test Fixture (TTF), October 7, 1982, 4 pages.	
EC		TEMPTRONIC CORPORATION, "Model TPO3000 Series ThermoChuck Systems for Probing, Characterization and Failure analysis of Wafers, Chips and Hybrids at High and Low Temperatures," pp. 2-5. No date ✓	
EC		CASCADE MICROTECH, "Model 42/42D Microwave Probe Station Instruction Manual, Electrical Operation," pp. 4-1 - 4-42. No date ✓	
EC		INTER-CONTINENTAL MICROWAVE, "Microwave Semiconductor Chip Measurements using the HP 8510B TRL-Calibration Technique," Application Note: 101 No date ✓	
EC		DESIGN TECHNIQUE, "Microstrip Microwave Test Fixture," May 1986, 2 pages.	

EC		PHOTO: Micromanipulator Probe Station 1994	
EC		MICROMANIPULATOR SALES AND SERVICES INC., "Test Station Accessories," Copyright 1983, 1984, 1 page.	
EC		RUEDI AEBERSOLD & MATTHIAS MANN, "Insight Review Articles, Mass spectrometry-based proteomics," Nature, Vol. 422, March 13, 2003, pp. 198-207.	
EC		KEITHLEY INSTRUMENTS, INC. "Low-Level Measurements for Effective Low Current, Low Voltage, and High Impedance Measurements," Revised Third Edition, Printed June 1984.	
EC		INTER-CONTINENTAL MICROWAVE, 2370-B Walsh Avenue, Santa Clara, CA 95051, "Product Catalog," No date ✓	
EC		HEWLETT PACKARD, "HP 4284A Precision LCR Meter Operation Manual (Including Option 001,002,006,201,202,301)," Third Edition, December 1991, pp. 2-1; 6-9, 6-15.	
EC		CLETUS A HOER, "A High-Power Dual Six-Port Automatic Network Analyzer Used in Determining Biological Effects of RF and Microwave Radiation," IEEE Transactions on Microwave Theory and Techniques, Vol. MTT-29, No. 12, December 1981.	
EC		CASCADE MICROTECH TECHNICAL BRIEF, "A Guide to Better Vector Network Analyzer Calibrations for Probe-Tip Measurements, Copyright 1994, 2 pages.	
EC		TEMPTRONIC, "Guarded" Chuck Sketch, November 15, 1989	
EC		ARTHUR FRASER, REED GLEASON, E.W. STRID, "GHz On-Silicon-Wafer Probing Calibration Methods," Cascade Microtech Inc. P.O. Box 1589, Beaverton, OR 97075-1589, pp. 5-8 No date ✓	
EC		ANDREJ SALI, ROBERT GLAESER, THOMAS EARNEST & WOLFGANG BAUMEISTER, "From words to literature in structural proteomics," Insight: Review Article, Nature 422, pp. 216-225, March 13, 2003.	
EC		MIKE TYERS & MATTHIAS MANN, "From genomics to proteomics," Insight overview, Nature Vol. 422 March 2003, pp. 193 - 197.	
EC		WILLIAM KNAUER, "Fixturing for Low-Current/Low-Voltage Parametric Testing," Evaluation Engineering, November 1990, pp. 9-12.	
EC		J.D.TOMPkins, "Evaluating High Speed AC Testers," IBM Technical Disclosure Bulletin, Vol. 13, No. 7 December 1970, p.180.	
EC		JIM FITZPATRICK, "Error Models for Systems Measurement," Microwave Journal, May 1978, pp. 63-66.	
EC		SAM HANASH, "Disease proteomics," Insight Review Articles, Nature, Vol. 422, March 13, 2003, pp. 226 - 232.	
EC		DESIGN TECHNIQUE INTERNATIONAL, "Adjustable Test Fixture," Copyright 1988.	
EC		RONALD F. BAUER & PAUL PENFIELD, JR., "De-Embedding and Unterminating," IEEE Transactions on Microwave Theory and Techniques, Vol. MTT-22, No. 3, March 1974, pp. 282-288.	
EC		Cross Section - Signatone S-1240 Sketch, Advertised & Sold 1987-1988.	
EC		YOUSUKE YAMAMOTO, "A Compact Self-Shielding Prober for Accurate Measurement of On-Wafer Electron Devices," IEEE Transactions on Instrumentation and Measurement, Vol. 38, No. 6, December 1989, pp. 1088 - 1093.	
EC		R. Y. KOYAMA & M. G. BUEHLER, "Semiconductor Measurement Technology: A Wafer Chuck for Use Between -196 and 350° C," U.S. Department of Commerce, National Technical Information Service, PB-293 298, Issued January 1979.	
EC		KEN COLE, "ThermoChuck Performance (Fax)," 2 pages, March 10, 1995.	
EC		S. BECK & E. TOMANN, "Chip Tester," IBM Technical Disclosure Bulletin, January 1985.	
EC		APPLIED PRECISION, "Checkpoint," 2 pages, 8505 SE 68 <sup>th</sup> Street, Mercer Island, Washington 98040. No date ✓	
EC		L. L. SOHN, O. A. SALEH, G. R. FACER, A. J. BEAVIS, R. S. ALLAN, & D. A. NOTTERMAN, "Capacitance Cytometry: Measuring biological cells one by one," PNAS Vol. 97, No. 20 September 26, 2000, pp. 10687-10690.	
EC		DANIEL VAN DER WEIDE, "THz Frequency Science & Technology Biomolecular Interaction Sensing with Sub-Terahertz Fields," University of Wisconsin-Madison, 2 pages. No date ✓	
EC		MARK S. BOGUSKI & MARTIN W. MCINTOSH, "Biomedical informatics for proteomics," Insight: review article, Nature 422, March 13, 2003, pp. 233-237.	

EC	SASWATA BASU & REED GLEASON, "A Membrane Quadrant Probe for R&D Applications," Cascade Microtech, Inc. 14255 SW Brigadoon Ct., Beaverton, OR 97005, 3 pages. No date ✓	
EC	THE MICROMANIPULATOR COMPANY, INC., "Model 8000 Test Station," 1986, 1 page.	
EC	THE MICROMANIPULATOR COMPANY, INC. "Model 8000 Test Station," 1988, 1 page.	
EC	"Vacuum," Mechanical Operation, pp. 3-8 - 3-9. No date ✓	
EC	THE MICROMANIPULATOR COMPANY, INC., "Accessories: Hot and Hot/Cold Chucks, Integrated Dry environments, Triaxial chucks, Integrated Shielded and Dark environments, Probe Gard Holders," page 8. No date ✓	
EC	Microwave Products, Microwave Journal, September 1988, 1 page.	
EC	CASCADE MICROTECH, "Advanced On-Wafer Device Characterization Using the Summit 10500," pp. 2-20. No date ✓	
EC	SASWATA BASU & LEONARD HAYDEN, "An SOLR Calibration for Accurate Measurement of Orthogonal On-Wafer Duts," IEEE MTT-S Digest, 1997, pp. 1335-1336, 1338.	
EC	HEWLETT PACKARD, "HP 4142B Modular DC source/Monitor Practical Applications—High Speed DC Characterization of Semiconductor Devices from Sub pA to 1A," November 1987, pp. 1-4.	
EC	DOUG RYTTING, "Appendix to an Analysis of Vector Measurement Accuracy Enhancement Techniques," pp. 1-42, Hewlett Packard. No date ✓	
EC	TEMPTRONIC CORPORATION, "Application Note 1 Controlled Environment Enclosure For low temperature wafer probing in a moisture-free environment," 2 pages. No date ✓	
EC	CASCADE MICROTECH, INC. vs. MICROMANIPULATOR COMPANY, INC., "Deposition of Harry F. Applebay," United States District Court for the District of Oregon, Lead Case No. 97-479-AI. No date ✓	
EC	FLEXION CORPORATION, "Cryotest Station MP-3," CASCADE MICROTECH, INC. vs. MICROMANIPULATOR COMPANY, INC., Applebay Exhibit 576, May 13, 1998, 68 pages.	
EC	FLEXION CORPORATION, "Cryotest Station MP-3," CASCADE MICROTECH, INC. vs. MICROMANIPULATOR COMPANY, INC., Applebay Exhibit 578, May 13, 1998, 1 page	
EC	CASCADE MICROTECH, INC. vs. MICROMANIPULATOR COMPANY, INC., Applebay Exhibit 572, May 13, 1998, 2 pages.	
EC	CASCADE MICROTECH, INC. vs. MICROMANIPULATOR COMPANY, INC., Applebay Exhibits 581A, 581B, and 581C, May 13, 1998, 3 pages.	
EC	FLEXION CORPORATION, "AP-1 Cryotest Station," Applebay Exhibit 582, May 13, 1998, 20 pages.	
EC	FLEXION CORPORATION, "AP-1 Cryotest Station User Manual," Applebay Exhibit 583, May 13, 1998, 187 pages.	
EC	CASCADE MICROTECH, INC. vs. MICROMANIPULATOR COMPANY, INC., Applebay Exhibits 577A, 577B, 577C, May 13, 1998, 3 pages.	
EC	CASCADE MICROTECH, INC. vs. MICROMANIPULATOR COMPANY, INC., Applebay Exhibit 585, May 13, 1998, 7 pages.	

Examiner Signature	Emily Chan	Date Considered	6/28/06
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